

## INTERNATIONAL SEARCH REPORT

 International application No.  
**PCT/AU2004/001458**
**A. CLASSIFICATION OF SUBJECT MATTER**Int. Cl. <sup>7</sup>: C01F 7/46; B01J 19/10

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

B01J 19/10; C01F 7/36, 7/46; C07F 5/06; C22B 21/06, 21/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPAT; JAPIO; CAPLUS; USPTO; Espace@net; IPC above and Keywords - Bayer, ultraso+, sound+, purity, purific+, alumin+

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4062696 A (DUCOTE), 13 December 1977 Whole document	1-20
A	CN 1072214 (UNIVERSITY OF ZHONGNAN POLYTECHNIC) 19 May 1993 (abstract). [online] [retrieved on 2004-12-06]. Retrieved from Espace@net.	1
A	US 6335396 B1 (CHEVALLIER et al), 1 January 2002	1
A	WO 1989/005184 A (LAIHO K.U.), 15 June 1989	1



Further documents are listed in the continuation of Box C



See patent family annex

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search  
10 December 2004

Date of mailing of the international search report

20 DEC 2004

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/AU2004/001458**

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member			
US	4062696				
CN	1072214				
US	6335396	AU	43667/97	AU	78163/94
		CA	2150369	CN	1114832
		FI	952605	FR	2710629
		US	6169135	WO	9509127
WO	8905184	BR	9405616	EP	0670813
		CA	2150369	FR	2723581
		DK	339689	ZA	9408071
		EP	0344262	FI	875330
		NO	892705	US	5053141
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.					
END OF ANNEX					